ANNEXURE-2

Rate Analysis for Cost Estimate for BBMP

Name of work: Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04)

Sl. No	Description of Work	Unit	Final Shedule-B Quoted Rate (Rs)	Quantity Above 125%							
				Rate for Qty above 125% (SR-2021-22)	Lift Charges	Additional Centering Amount	Sub Total	AW 10%	Total	Add T.P (+) 0.85%	Final Rate (Rs)
10	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate).	Sqm	5080.03	5080.03					5080.03	43.18	5123.22
18	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom. (V-III No-5.3,P No-29 of PWD BCSR 2021-22)	Sqm	13.31	12.00				1.20	13.20	0.11	13.32
20	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (V-III, P.No.36, I.No.5.16C of PWD SR 2021-22).	Cum	12792.45	11531.00				1153.10	12684.10	107.81	12791.92
21	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes (V-III No-8.15,P No-57 of PWD BCSR 2021-22)	Sqm	530.29	478.00				47.80	525.80	4.47	530.27
33	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (I. No 5.4, P. No-9 of PWD & IWTD, Vol-2 SR 2021-22)	Cum	6015.15	5422.00				542.20	5964.20	50.70	6014.90
34	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge. (I. No 8.19.1, P. No-44 of PWD & IWTD, Vol-2 SR 2021-22)	Sqm	221.88	200.00				20.00	220.00	1.87	221.87
40	Ground Floor (Roof Beam,Lintel beam and slab) (I. No 2.5.2, P. No-17 of PWD & IWTD, Vol-1 SR 2021-22)	Cum	8642.64	6492.00		1298.40	7790.40	779.04	8569.44	72.84	8642.29
41	Terrace (Column) (I. No 2.5.2, P. No-17 of PWD & IWTD, Vol-1 SR 2021-22)	Cum	8001.64	6492.00	64.92	655.69	7212.61	721.26	7933.87	67.44	8001.32

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Modified Rate Analysis

Sl. No	Description of Work	Unit	Final Shedule-B Quoted Rate (Rs)	Rate for Qty above 125% (SR-2021-22)	Lift Charges	Additional Centering Amount	Sub Total	AW 10%	Total	Add T.P (+) 0.85%	Final Rate (Rs
43	Terrace (Parapet Wall) (I. No 2.5.1, P. No-17 of PWD & IWTD, Vol-1 SR 2021-22)	Cum	10513.51	6471.00	64.71	2941.07	9476.78	947.68	10424.46	88.61	10513.07
46	Terrace (I. No 6.32, P. No-17 of PWD & IWTD, Vol-2 SR 2021-22)	Kgs	1333.49	1202.00				120.20	1322.20	11.24	1333.44
50	Terrace (I. No 8.3.1 & 8.13 P. No-41, 43 of PWD & IWTD, Vol-2 SR 2021-22)	Sqm	491.61	351.00	3.51	88.63	443.14	44.31	487.45	4.14	491.60

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2021-22
4. The provisions made in the estimate are necessary and essential.

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ANNEXURE-2

Rate Analysis for Cost Estimate for BBMP

Based on KPWD SR-2021-22, Bangalore Circle

Name of the work: Improvement to Roads, Drains and Other Developmental Works at 407,707,208 SFS, Major Akshay Girish Kumar Road, Yelahanka 4th & 5th Phase and Surrounding Areas In Ward No.01,03 & 04 Of Yelahanka Division Under Amruth Nagarothan Grants (Package-04).

Sl. No	Description of Work	Unit	Item no	Page no	Volume	Basic rate in (Rs)	Additional Centering Amount	AW 10%	TP Charges 0.85%	Final Rate (Rs)
Eirl-1	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. * Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent.	Sqm	9.24	63.00	Volume-2	2881.00	-	288.10	26.94	3196.04
Eirl-2	Providing and fixing Structural Steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	Kgs	11.2	75.00	Volume-2	95.00	-	9.50	0.89	105.39
Eirl-3	Providing & fixing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete as per design drawings (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required as per the direction of Engineer in charge. 0.63 mm thick with zinc coating not less than 275 g/ m².	Sqm	7.1.1	21	Volume-2	795.00	-	79.50	7.43	881.93

Certificate:-

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3. The rates adopted based on the PWD SR Bangalore Circle for year 2021-22
4. The provisions made in the estimate are necessary and essential.

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